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R PORT NO

CENTRAL INTERLIGENCE AGENCY

INFORMATION REPORT

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COUNTRY

DATE DISTR

30 October 1953

Best Germany

SUBJECT

Extent of Pharmaceutical Fesearch Effort at Gehe & Company, Dresden

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- The research laboratories of dehe & Company, Dresden, were decated in the Institut fuer Farben und Textilchemie of the Technische Mochschule, Cresden, from April 1949 until August 1952. Those facilities were used by Cohe to investigate and establish methods for the preparation of pharmaceuticals which were subsequently produced on a commercial scale by Cele & Company and by the Arzneimittelmerk-Dresdon (A.D). The A.D incorporated Gehe into its organization in 1952.
- 2. The director of the Institut fuer Parben und Textilcherde was Prof. Dr.-Ing. Welter Roenig, a number of the faculty of the Technische Hochschule, as well as chief of the chemistry section of Gehe's research organization. In a Reconig's assistant was Dr. ..alter Siebeck. These men were given a free hand in the pursuit of their work and no apparent direction was supplied from government sources. However, because of the great shortage of chemical supplies in the DIR, their work was confined to investigating those pharmaccuticals for which there was the greatest need and for which sufficient raw materials were available. The following products were given particular attention:

#### a. Metaylthiourscil

This was one of the more important products for which a production process was developed. Considerable success was obtained in the IDR in the application of methylthiouracil for therapy of colter. The high incidence of this disease, particularly in young people, was attributed to the abnormal consumption of cabbage, kohlrabi, radishes, and similar plants as the sole regetable source. The synthesis of methylthiouracil consisted of the condensation of aceto-acetic ester with ures, in which water and alcoholwere split out to yield the heterocyclic ring compound (methylthiourseil).

Corvital (beta-pyridine carboxylic acid diethylanica)

In the DER, Corvital was prepared from raw misotine tecause of the non-availability of nicotinic acid as a raw material. The synthosis was carried out according to a method described in "Organic by nthecas" (Surther reference data not recalled by source), uncreby nitric acid was used as an ostelling agent and the methylpyrrolidine split off by using Iron as a

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catalyst. This reaction had to be neintrined it a lemperate of 10-69°C. in order to prevent too rapid exidation.

The dicthylamide of nicotinic acid was obtained by treating the acid chloride with dicthylamine. Originally thiocylabloride was used in this step, but when the latter product was as longer available in the A.F. it was discovered that phosphorus trichhoride was also spitche for the formation of the acid chloride. The phosphoric soid formed in the maction did not destroy the acid chloride. The resetion could be contied out in benzene solution. This procedure had not been known to the roup at Octo & Company, nor had it been described in the literature available in Droceen.

The nicotinic acid chloride was converted to the hydrocal ride of nicotinic acid diethylande by broadness with diethylands. The diethylande salt was decomposed with social hydrocale and the free becomparable by distillation under high vacuum. The fraction with the appropriate boiling point was separated from the distillation on reduined.

## c. Tetraetylammonium bromide

This product was propered for therapy of peripheral circulatory disturbances, such as those found in Reynoud's disease or in gaspronous conditions. No special difficulties were encountered in the production of this compound, provided pure resustantials was a rad. The fragrans prepared by combining pure triedbylarine and offel broates where contingers compound so obtained began to crystalline out a first a dark resided of standing. The crystals of totrachylareneous broates was finding did not be triedbylamine so that the final product was hypermospic. They patients, particularly elderly cases, showed as idioconcrety to totractlylammonium broates and went into a state of special The modulet was sold on the market in a 1 to 2 percent solution, but it was resourced that a 0.5 cc. test done always be administered before and

#### d. Indigeneraine

This dyestuff, the sodium solt of indige disulfants and, was prepared for intravenous injections and combagned on indicator of bidney functions. The dye is normally excreted by the indeeds and the excreteion of made bidney can be observed cystocompically in the bladder.

Indigo vat dye was treated with equivaler quantities of concontrated sulfuric acid, under enternal cooling, to receive the circuit rate of indigo. Addition of colid coders crokes is public his reduced that this was easily soluble in veter and has to be salted out of solution with sodium chloride. The final product was measured as a call respect scientum of the salt in physiological saline and nearly of quantities of velice characters and it was, therefore, necessary to control the open structure of the scientum of the scaled in amples. The order application of the content of concentration willines the located diffricts to published the content of concentration willines that concentral testines a laboration. The couper of this could never be electly established. In an attempt to avoid this, a less consentrated administration established. In an attempt to avoid this, a less consentrated administration was used. After repeated testing in vertices and or at this agree of still produced a sufficient color contrast to be absenced to the symboscopi in the blacker.

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	polymethine type. The discover of the compounds was the elemical the compounds was the accompliance for Koonig, ration of new polymetric dy Attachment []. By virtue of double molecule formation or these new substanced were explained from relatively simpagents for pharmaceutical purto carry out bacteriological products after they were synt	reactions occurring du delegat of Frol. Dr. Ko subsitted his dectorate es from bare highly not their theoretically pos- fucorporables of estive acted to yield a greate The polyarthine dyes, the substances, were the pores. Thiorematoly, or	ing the symble of the police on the police on the police of the police o	is of index repart (See Sirrough hyd), ivity sac sittle tie new 1
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## A Summary of Thosis on Polymphiline lyps by Dres diebook and Ferrag

"Contributions to Chemotherapy Shwough Symthesis of Siroptepal ordina Dyes from Shysiologically Active, and Estimately Tubercultockable Lap Asimo, Primary Amires."

Doctorate thesis presented at the Toskeninskin declaration, Present, October 11, 1951, by Dr. Waiter Sieback, unless the direction of their wroning. Walter Koenig and Prof. Dr. Tig. Mar. Doctors.

The purpose of the project was to spatishing our products from physically active saletoness in order to incorporate william to the substance shallow or varied effectiveness.

A series of now "streptopolymetalise" dyes (i.e., long-salar accessioned dyes) were synthesized from known loost enough of compounds prepared wore as follows:

- Type I: dyes containing a transmitting management greate a proposed from novocsin.
- Type II: does with a lordresytementalise assembling grand produced from condemostions of Traditional Wiley in the case, in the lower in
- Type III: dyes with a pertanut also maked a second day of a special field interesting and there per decidental before this continues.
- Type IV: dyes with a hydrony-purises this as sociates trans to be pared from p-aminobenzoic acid and its waters, and from Lybrad the Aybates.
- Type V: dyes with carbonian groups in the penthasothian meson one group prepared from smiline and minothina read distoparation, it, has is and nicotinic and distoping and strong
- Type VI: compounds with an B-explayability, to deal water parent over the same materials as Type  $V_\alpha$

The thesis presented nothing more than the synthetic only of the products products and the chemical composition of the new products suggested the products of products of products of products of products of products of new or increased physical new rate.

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